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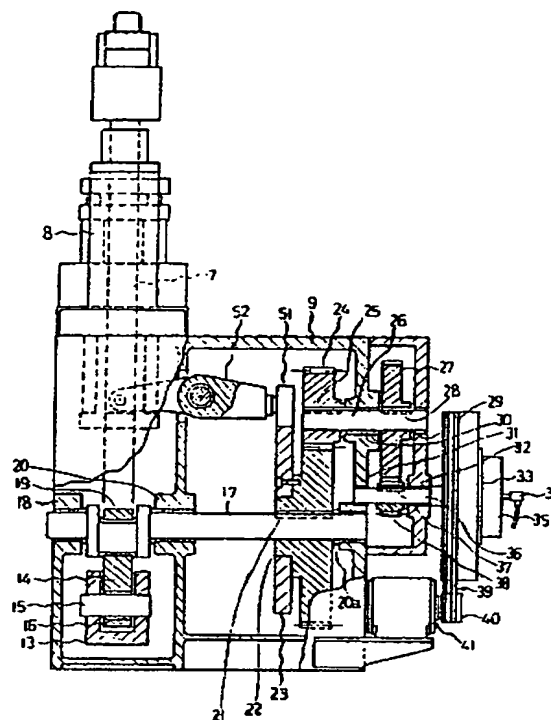
APPLICATION DATE : 13-10-84
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TITLE : DRIVING DEVICE FOR POWDER
MOLDING PRESS MACHINE



ABSTRACT : PURPOSE: To improve molding quality by constituting a transmission gear of a pair of non-circular gears, making constant the sum of the radii according to rotation.

CONSTITUTION: A crank shaft 17 is rotated by the rotation of a driving motor 41 and a molding ram executes compression molding. The 1st reduction gears 38, 27 are provided between a prime moving shaft 36 and a counter shaft 26 and the transmission gears 24, 22 are disposed between the shaft 26 and the shaft 17. The non-circular gears are adopted for the gears 24, 22 and the sum of the respective radii is made constant; at the same time the radii are increased or decreased according to the rotating angle. Both pinion 24 and gear 22 are subjected to gear cutting so as to meet the prescribed curve. The powder feed time and compression pressing time during press working are made longer by the above-mentioned method, by which the compaction of the molding hence the molding quality are improved.

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